

Enclosure 1

Plastic Parts Surface Coating Survey Forms

**U.S. ENVIRONMENTAL PROTECTION AGENCY
OFFICE OF AIR QUALITY PLANNING & STANDARDS
EMISSION STANDARDS DIVISION
RESEARCH TRIANGLE PARK, NC 27711**

DATE: October 30, 1998

TO: Persons interested in the development of air emission standards for the surface coating of plastic parts and products

FROM: Bruce Moore, U.S. Environmental Protection Agency (EPA)

PHONE: 919-541-5460 (e-mail: moore.bruce@epamail.epa.gov)

OFFICE: U.S. Environmental Protection Agency
Office of Air Quality Planning & Standards
Emission Standards Division
Research Triangle Park, NC 27711

SUBJECT: Alternative Questionnaire for Surface Coating of Reinforced Plastic Composite Parts and Products

What is this questionnaire?

The EPA is in the process of collecting data for air emission standards for the reinforced plastic composites subcategory of the plastic parts and products (PPP) industry. This questionnaire has been designed as an industry-specific alternative to EPA's generic questionnaire to give you the best opportunity to let EPA know about your processes, including any special situations that limit your choice of coatings. The forms and examples have been customized to provide specific help for surface coaters of reinforced plastic composites.

What is contained in this enclosure?

This enclosure contains the complete alternative questionnaire, Forms A through J, and general instructions.

GENERAL INSTRUCTIONS

Plastic Parts and Products (PPP) Alternative Questionnaire Reinforced Plastic Composites Subcategory

What are these forms, and why did I receive them?

The questionnaire forms in this package were designed specifically for gathering information for the development of Maximum Achievable Control Technology (MACT) standards for the emissions of hazardous air pollutants (HAP) from nine surface coating categories, as required under section 112 of the Clean Air Act (CAA) as amended in 1990. These regulations are expected to be promulgated in November of the year 2000. There are nine source categories that are on this schedule; note that six of the nine categories will also be subject to regulation for volatile organic compound (VOC) emissions under section 183(e) of the CAA.

The nine surface coating categories consist of the following:

- Automobile and light-duty trucks (*)
- Fabric
- Large appliances (*)
- Metal can
- Metal coil
- Metal furniture (*)
- Miscellaneous metal parts and products (*)
- Plastic parts and products (*)
- Wood building products (*)

Source categories indicated by an asterisk (*) will have both MACT standards under section 112 of the CAA and VOC actions under section 183(e) of the CAA. Your facility has been identified as belonging to the Plastic Parts and Products (PPP) surface coating category.

Please see the definitions section of Enclosure 1a for additional detail concerning how each of these categories is defined. If you feel that your facility is better represented in another source category, or if your facility coats items belonging to another source category in addition to PPP, please contact Mr. Bruce Moore, the EPA project lead for the PPP source category, at (919)541-5460 or moore.bruce@epamail.epa.gov. For further

information concerning this questionnaire, you may also contact Ms. Kim Teal, EPA, at (919) 541-5580 or teal.kim@epamail.epa.gov. An additional contact for technical, survey-specific questions is Mr. Greg DeAngelo, Eastern Research Group, Inc. (phone: (919) 468-7851, email: deangel@erg.com).

To better understand the industry and to develop concise, sensible rules, the EPA has created these forms as an alternative to the "generic questionnaire," which is a pre-approved questionnaire designed to gather information necessary to develop MACT standards. This alternative questionnaire is the best opportunity for you to describe your surface coating and ancillary operations so that the eventual regulations will be workable, practical, and technically accurate. The EPA must have good data to develop regulations that make sense.

How did you get my name?

The mailing list for the reinforced plastic composites subcategory was provided by the Composite Fabricators Association. The alternative questionnaire has been addressed to the corporate environmental official (when known) instead of the individual facilities for the following reasons:

- to alert corporate owners of the data collection effort,
- to allow corporate owners the opportunity to provide a coordinated response from all of their facilities,
- to reduce the amount of mailing to individual facilities, and
- to ensure that individual facilities are not missed.

What if I do not coat plastic parts or products?

If you do not apply coatings, adhesives, sealants, caulks, etc. (see definition of coating) to PPP, please fill out and return only the first page of Form A. This will consist of answering items **A-1** through **A-4** (name, address, and contact

GENERAL INSTRUCTIONS

information). Then, in item **A-5**, check the box specifying that you do not perform surface coating of PPP. Filling out and returning this single sheet will help complete our records as well as ensure that no penalties are assessed and that in the future, no similar material will be sent to your facility. If you coat materials that could be classified under another surface coating category and you would like EPA to consider your facility's data during this rulemaking process, you should fill out and return items **A-1** through **A-4** and **A-5** as noted above and may contact Mr. Bruce Moore or Ms. Kim Teal to obtain the appropriate questionnaire.

How do I fill out these forms?

The EPA expects that some questionnaires will be completed at the corporate level and that some will be completed at the individual facilities. In addition, many of the forms will require multiple copies. You should evaluate your potential need for copying before beginning to fill out the forms.

One response should be provided for each facility or plant. Each response should have a unique Facility Tracking Number. The Facility Tracking Number can be found on your mailing label and on the cover letter sent with this alternative questionnaire.

If you are reporting for one facility, simply use the Facility Tracking Number assigned. If you are reporting for more than one facility, add a letter to the end of the assigned Facility Tracking Number for each facility. For example, if your assigned Facility Tracking Number is ABC001 and you are reporting for three facilities, the individual Facility Tracking Numbers would be ABC001A, ABC001B, and ABC001C.

There are several forms (Form A through Form J) that comprise this alternative questionnaire. Most forms are short, consisting of only one or two pages of information. The EPA expects that some forms may need to be copied for you to provide all of the requested data. Each copy of each page of a form should have the Facility Tracking Number entered

on it. In addition, for tracking purposes, please indicate in the spaces provided on each page the copy number and the total number of copies of that page.

A definition section and further instructions specific to each form are included in Enclosure 1a.

How do the forms fit together?

The alternative questionnaire consists of several inter-related forms.

- Form A (Facility General Information); one form for each response.
- Form B (Material Data); one form is needed for each material (or group of similar materials) used in the facility that can contribute to the emissions of VOC or HAP. Although it is expected that most materials will be coatings, the information requested on Form B includes materials used in surface preparation, equipment cleaning, etc. The other forms will reference the material identification number that you assign each of your materials or groups of materials.
- Form C (Control Devices); one form is needed for each control device used at your facility to control emissions from surface coating of PPP.
- Form D (Coating Scenarios); one form for each response. Use this form to describe the parts you coat, the systems of coatings that you apply, and your coating application methods.
- Form E (Surface Preparation); one form is needed for each unique surface preparation activity.
- Form F (Storage); one form is needed for each unique storage area.
- Form G (Mixing Operations); one form is needed for each unique mixing operation.
- Form H (Cleaning Operations); one form is needed for each unique cleaning operation.
- Form I (Waste and Wastewater); one form for each response. Use this form to describe the waste and wastewater handling throughout your facility.

GENERAL INSTRUCTIONS

Plastic Parts and Products (PPP) Alternative Questionnaire Reinforced Plastic Composites Subcategory

- Form J (Comment Sheet); use copies of this form as necessary to provide any additional detail for any response on any other form.

Can you provide me an example of how to fill out the forms?

Enclosure 1a contains an example of the forms completed for a facility coating reinforced plastic composites.

What is a coating scenario?

Essentially, a coating scenario should be defined for each unique combination of the parts you coat, the coating systems used, and the application methods. See the Form D instructions (Enclosure 1a) for more details and examples.

Facility Tracking Number:

FORM A. General Facility Information

Page 1 of 4
(Copy ___ of ___)

A-1. Facility name: _____

A-2. Facility address: _____
street city county state zip code

A-3. Corporate owner
Name: _____

Mailing address: _____
street city state zip code

A-4. Technical contact
Name and title: _____

Mailing address: _____
street city county state zip code

Telephone: _____ Fax: _____

A-5. Facility description

☐ No coating of plastic parts or products is performed at this facility

Date of original construction of facility: _____ SARA TRI facility ID number: _____

Number of facility employees: _____ Number of coating employees: _____

Dun and Bradstreet number: _____ Provide a brief description: _____

Facility Tracking Number:

FORM A. General Facility Information

Page 2 of 4
(Copy ___ of ___)

A-6. Product description

Product	<input type="checkbox"/> SIC <input type="checkbox"/> NAICS	End-use Product?
		<input type="checkbox"/> Y <input type="checkbox"/> N
		<input type="checkbox"/> Y <input type="checkbox"/> N
		<input type="checkbox"/> Y <input type="checkbox"/> N
		<input type="checkbox"/> Y <input type="checkbox"/> N
		<input type="checkbox"/> Y <input type="checkbox"/> N
		<input type="checkbox"/> Y <input type="checkbox"/> N
		<input type="checkbox"/> Y <input type="checkbox"/> N
		<input type="checkbox"/> Y <input type="checkbox"/> N

Product	<input type="checkbox"/> SIC <input type="checkbox"/> NAICS	End-use Product?
		<input type="checkbox"/> Y <input type="checkbox"/> N
		<input type="checkbox"/> Y <input type="checkbox"/> N
		<input type="checkbox"/> Y <input type="checkbox"/> N
		<input type="checkbox"/> Y <input type="checkbox"/> N
		<input type="checkbox"/> Y <input type="checkbox"/> N
		<input type="checkbox"/> Y <input type="checkbox"/> N
		<input type="checkbox"/> Y <input type="checkbox"/> N
		<input type="checkbox"/> Y <input type="checkbox"/> N

A-7. Reporting year: _____ ☐ fiscal year ☐ calendar year (If not 1996, enter reasons on a Form J comment sheet.)

A-8. Corporate sales

Annual corporate sales: \$_____ Sales attributable to coating: \$_____

A-9. Surface coating categories

(Check all that apply. See definitions for description of the categories.)

☐ Auto and light duty truck ☐ Fabric ☐ Large appliances ☐ Metal can
☐ Metal coil ☐ Metal furniture ☐ Miscellaneous metal parts and products
☐ Plastic parts and products ☐ Wood building products

A-10. Other regulatory requirements

List any other existing MACT standards applicable to your facility: _____

Has a LAER limit been placed on any coating scenario at your facility? ☐ Yes ☐ No

If "yes," indicate the most recent date that a LAER limit was instituted: _____ and provide a comment sheet specifying which coating scenarios are affected by LAER and the dates LAER was implemented for each.

CBI on this sheet: ☐ All ☐ Some (circle) ☐ None

Alternative Questionnaire for Reinforced Plastic Composites

Facility Tracking Number:

FORM A. General Facility Information

Page 3 of 4
(Copy ___ of ___)

A-11. Title V classification

☐ Major source

☐ Minor or area source

☐ Synthetic minor source

☐ Unknown

Basis for determining title V classification: _____

List any co-located activities influencing title V classification: _____

A-12. Research and development (R&D) for surface coating operations

Are R&D activities conducted at your facility? ☐ Yes ☐ No ☐ Unsure (may be R&D)

If "yes" or "unsure," briefly and qualitatively describe the R&D activities and their purpose: _____

Estimate HAP emissions for each R&D activity:

R&D Activity	Emissions Estimate (include units)	Basis for Emissions Estimate	Emissions are Vented to:

If "no," are you aware of any R&D activities associated with PPP surface coating that are conducted at other locations?
Briefly and qualitatively describe the R&D activities, location, and purpose: _____

CBI on this sheet: ☐ All ☐ Some (circle) ☐ None

Alternative Questionnaire for Reinforced Plastic Composites

Facility Tracking Number:

— — — — —

FORM A. General Facility Information

Page 4 of 4
(Copy __ of __)

A-13. Response summary

☐ Form A; number: _____

☐ Form E; number: _____

☐ Form I; number: _____

☐ Form B; number: _____

☐ Form F; number: _____

☐ Form J; number: _____

☐ Form C; number: _____

☐ Form G; number: _____

☐ Form D; number: _____

☐ Form H; number: _____

Facility Tracking Number:

FORM B. Material Data

Page 1 of 2
(Copy ___ of ___)

B-1. Material identification: Material ID number: MN _____ [] Single material [] Group of similar materials

Product name: _____

Supplier's name: _____

Supplier's stock number: _____

• Fill out these blanks if this form is for a single material.

For groups of similar materials, attach a Form J comment sheet with the product name, supplier's name, and supplier's stock number of each material in the group.

B-2. Material usage: _____ (units) of this material used during the reporting year (ref. **A-7**)

B-3. Material composition and formulation data, as supplied

Product density (weight per volume): _____ (units)

Solids content: _____ weight percent

Total VOC content: _____ weight percent

Water content: _____ weight percent

Source of data: (check appropriate source)

[] Test data

[] Certified product data sheet (CPDS)

[] Material safety data sheet (MSDS)

[] Other: _____

B-4. Thinner added: MN _____

Thinning ratio: _____
(parts thinner : parts supplied coating)

(Use a Form J comment sheet for multiple component materials.)

CBI on this sheet: [] All [] Some (circle) [] None

Alternative Questionnaire for Reinforced Plastic Composites

Facility Tracking Number:

FORM B. Material Data

Page 2 of 2
(Copy ___ of ___)

B-5. Speciated components, as supplied

Name of Volatile Component (trade name if ingredient name is unknown)	CAS Number	Weight Percent *	HAP	VOC
			<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>
Exempt VOC:			<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>
Total of aggregated components and exempts < 1.0 percent				
Water				
Percent solids				
Total of all components (must equal 100 percent)		100 %		

Name of Inorganic HAP Component	CAS Number	Weight Percent *

* Weight percent is the weight percent of the component in the total weight of the product.

CBI on this sheet: ☐ All ☐ Some (circle) ☐ None

Alternative Questionnaire for Reinforced Plastic Composites

Facility Tracking Number:

FORM C. Control Devices

Page 1 of 1
(Copy ___ of ___)

C-1. Control device identification

Control device identification number: CD _____

Position in series of controls: _____ of _____ units

Provide a brief description: _____

C-2. Vent stream characteristics

Inlet flow rate: _____ (units)

Inlet temperature: _____ (units)

Inlet moisture: _____ weight percent

C-3. Control device efficiency: _____ percent

C-4. Basis for estimated control device efficiency

Provide a brief description: _____

C-5. Monitoring

Describe any monitoring performed on this control device, whether parametric or outlet. Specify rule or permit

condition requiring the monitoring, and include the averaging time: _____

Facility Tracking Number: _____

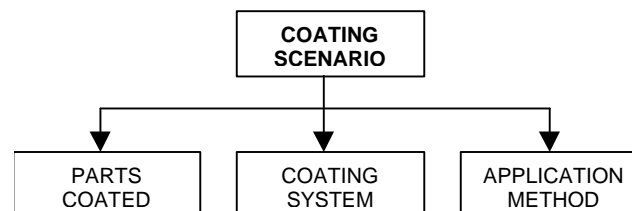
FORM D. Coating Scenario

Page 1 of 2
(Copy ___ of ___)

D-1. Provide a name for this coating scenario: _____

Note that each coating scenario is a unique combination of the parts you coat, the system of coatings you use, and the method of coating application (which includes application, flash-off, and curing). Fill out a separate Form D for each unique combination of parts, coating systems, and application methods.

For example, if you use one system of coatings (such as a base coat, top coat combination) for several different types of parts, you can define a single coating scenario. Then list each of the parts coated in that scenario in item D-2, describe the coating system in item D-3, and describe the application in items D-4 through D-6. But if the coating system varies with the type of part coated, then you should define multiple coating scenarios, using multiple copies of this form.



D-2. Provide information for each plastic part you coat in this coating scenario.

Part Name	Part Description	Part Shape	Longest Dimension	Flexible or Rigid?	Interior or Exterior?	Substrate

D-3. Identify your coatings, adhesives, and caulks applied in this coating scenario.

Material ID	Coating Type	Coating Technology	Thickness (units)	Number of Coats	Performance Specifications	Regulatory Specifications
MN -						
MN -						
MN -						
MN -						
MN -						
MN -						

Facility Tracking Number:

FORM D. Coating Scenarios

Page 2 of 2
(Copy ___ of ___)

Coating scenario name: _____ (continued, see item **PPP-1**)

D-4. Describe how the coatings are applied in this coating scenario.

Spray Booth Description	Conveyance	Application Method	Enclosure	Vent	PM / Overspray Control

D-5. Describe the flash-off conditions in this coating scenario.

Flash-off Area Description	Time (units)	Temp (units)	Enclosure	Vent

D-6. Describe the curing conditions in this coating scenario.

Curing Area Description	Time (units)	Temp (units)	Enclosure	Vent	Type of Curing

Facility Tracking Number:

FORM E. Surface Preparation

Page 1 of 2
(Copy __ of __)

E-1. Surface preparation identification

Surface preparation operation number: SP _____

Name of surface preparation operation: _____

Type of operation: ☐ Blasting ☐ Bleaching ☐ De-painting ☐ Detergent-based cleaning
 ☐ Sanding ☐ Solvent degreasing ☐ Stripping ☐ Wipe down
 ☐ Other: _____

List all coating scenarios which use this surface preparation operation (ref. D-1): _____

Overall technology: ☐ Water-based ☐ Solvent-based ☐ Varies, or not applicable
General purpose: ☐ Cleaning ☐ Coating adhesion ☐ other: _____

E-2. Equipment

Equipment ID	Equipment Type	Process or Activity	Throughput		
			Hourly Maximum	Annual	Units
SE _____					
SE _____					
SE _____					
SE _____					

E-3. Materials used

Material ID (ref. B-1)	Annual Amount Used	Amount Used Units	Equipment ID (ref. E-2)
MN _____			SE _____
MN _____			SE _____
MN _____			SE _____
MN _____			SE _____

CBI on this sheet: ☐ All ☐ Some (circle) ☐ None

Alternative Questionnaire for Reinforced Plastic Composites

Facility Tracking Number:

FORM E. Surface Preparation

Page 2 of 2
(Copy ___ of ___)

E-4. Emissions capture and control

(If enclosed and vented, provide enclosure capture efficiency.)

Equipment ID (ref. E-2)	Enclosure	Vented	Enclosure Capture Efficiency (percent)
SE _____	<input type="checkbox"/> open, unhooded <input type="checkbox"/> open, hooded <input type="checkbox"/> enclosed and vented	<input type="checkbox"/> to building interior <input type="checkbox"/> to atmosphere <input type="checkbox"/> to control device; CD _____	
SE _____	<input type="checkbox"/> open, unhooded <input type="checkbox"/> open, hooded <input type="checkbox"/> enclosed and vented	<input type="checkbox"/> to building interior <input type="checkbox"/> to atmosphere <input type="checkbox"/> to control device; CD _____	
SE _____	<input type="checkbox"/> open, unhooded <input type="checkbox"/> open, hooded <input type="checkbox"/> enclosed and vented	<input type="checkbox"/> to building interior <input type="checkbox"/> to atmosphere <input type="checkbox"/> to control device; CD _____	
SE _____	<input type="checkbox"/> open, unhooded <input type="checkbox"/> open, hooded <input type="checkbox"/> enclosed and vented	<input type="checkbox"/> to building interior <input type="checkbox"/> to atmosphere <input type="checkbox"/> to control device; CD _____	
SE _____	<input type="checkbox"/> open, unhooded <input type="checkbox"/> open, hooded <input type="checkbox"/> enclosed and vented	<input type="checkbox"/> to building interior <input type="checkbox"/> to atmosphere <input type="checkbox"/> to control device; CD _____	

E-5. Alternatives to solvent-based and HAP containing materials

If you use solvent-based materials or materials containing HAP in this surface preparation operation, describe any alternative materials that have been investigated as replacements and provide your assessment of them:

CBI on this sheet: ☐ All ☐ Some (circle) ☐ None

Alternative Questionnaire for Reinforced Plastic Composites

Facility Tracking Number:

FORM F. Storage

Page 1 of 1
(Copy ___ of ___)

F-1. Storage area identification

Storage area number: ST _____

Storage area name: _____

F-2. This storage area services: ☐ Entire facility

☐ Specific coating scenarios

If storage area serves specific coating scenarios, list each applicable coating scenario: _____

F-3. Method of storage

(Check all that apply.)

☐ 1-gallon cans ☐ 5-gallon cans ☐ 55-gallon drums ☐ 100-gallon totes ☐ Storage tanks

☐ Other: _____

F-4. Storage tank parameters

(Fill out for storage tanks with a capacity greater than 400 gallons.)

Storage Tank ID	Material Stored (ref. B-1)	Diameter (list units)	Capacity (list units)	Orientation	Annual Throughput	Throughput Units	Location	Temperature (include units)	Floating Roof
TK _____	MN _____			<input type="checkbox"/> horizontal <input type="checkbox"/> vertical			<input type="checkbox"/> indoor <input type="checkbox"/> outdoor <input type="checkbox"/> underground	<input type="checkbox"/> controlled: _____ <input type="checkbox"/> ambient	<input type="checkbox"/> internal <input type="checkbox"/> external <input type="checkbox"/> none
TK _____	MN _____			<input type="checkbox"/> horizontal <input type="checkbox"/> vertical			<input type="checkbox"/> indoor <input type="checkbox"/> outdoor <input type="checkbox"/> underground	<input type="checkbox"/> controlled: _____ <input type="checkbox"/> ambient	<input type="checkbox"/> internal <input type="checkbox"/> external <input type="checkbox"/> none
TK _____	MN _____			<input type="checkbox"/> horizontal <input type="checkbox"/> vertical			<input type="checkbox"/> indoor <input type="checkbox"/> outdoor <input type="checkbox"/> underground	<input type="checkbox"/> controlled: _____ <input type="checkbox"/> ambient	<input type="checkbox"/> internal <input type="checkbox"/> external <input type="checkbox"/> none
TK _____	MN _____			<input type="checkbox"/> horizontal <input type="checkbox"/> vertical			<input type="checkbox"/> indoor <input type="checkbox"/> outdoor <input type="checkbox"/> underground	<input type="checkbox"/> controlled: _____ <input type="checkbox"/> ambient	<input type="checkbox"/> internal <input type="checkbox"/> external <input type="checkbox"/> none

F-5. Enclosures and vents are: ☐ per this storage area or room

☐ per these storage tanks

☐ both

F-6. Enclosure: ☐ Open, unhooded

☐ Open, hooded

☐ Enclosed and vented

F-7. Vented: ☐ To building interior

☐ To atmosphere

☐ To control device, number CD _____

CBI on this sheet: ☐ All ☐ Some (circle) ☐ None

Alternative Questionnaire for Reinforced Plastic Composites

Facility Tracking Number:

FORM G. Mixing Operations

Page 1 of 1
(Copy ___ of ___)

G-1. Mixing operation identification

Mixing operation number: MS _____ Mixing operation name: _____

G-2. This mixing operation services: ☐ Entire facility ☐ Specific coating scenarios

If mixing operation serves specific coating scenarios, list each applicable coating scenario: _____

G-3. Mixing equipment

Equipment Type Description	Number of This Type	Capacity	Capacity Units	Emissions Capture for This Equipment		Integrated Emission Controls (covers, etc.)
				Description	Efficiency (percent)	

G-4. Enclosures and vents are: ☐ per this mixing area or room ☐ per these equipment types ☐ both

G-5. Enclosure: ☐ Open, unhooded ☐ Open, hooded ☐ Enclosed and vented

G-6. Vented: ☐ To building interior ☐ To atmosphere ☐ To control device, number CD _____

Facility Tracking Number:

FORM H. Cleaning Operations

Page 1 of 2
(Copy ___ of ___)

H-1. Cleaning operation identification

Cleaning operation number: EC _____ Cleaning operation name: _____

H-2. This cleaning operation services: ☐ Entire facility ☐ Specific coating scenarios

If cleaning operation serves specific coating scenarios, list each applicable coating scenario: _____

H-3. General type of cleaning operation (Check all that apply to the specific cleaning operation represented on this sheet.)

- ☐ Spray gun cleaning; automated enclosed cleaner ☐ Spray gun cleaning; manual open vat
☐ Spray gun cleaning; other: _____ ☐ Paint line flushing
☐ Mixing tank cleaning ☐ Storage tank cleaning
☐ In-place cleaning of roll-coater equipment ☐ Roll-coater parts; removed from the coater prior to cleaning
☐ Spray booth cleaning ☐ Paint hook cleaning
☐ Burn off oven ☐ Flush cleaning
☐ Parts cleaning not associated with surface preparation (as described in Form E): _____

☐ Other: _____

H-4. Materials used

Material ID (ref. B-1)	Annual Usage	Usage Units
MN _____		
MN _____		
MN _____		
MN _____		
MN _____		

Material ID (ref. B-1)	Annual Usage	Usage Units
MN _____		
MN _____		
MN _____		
MN _____		
MN _____		

CBI on this sheet: ☐ All ☐ Some (circle) ☐ None

Alternative Questionnaire for Reinforced Plastic Composites

Facility Tracking Number:

FORM H. Cleaning Operations

Page 2 of 2
(Copy ___ of ___)

H-5. Alternatives to solvent-based and HAP containing materials

If you use solvent-based materials or materials containing HAP in this cleaning operation, describe any alternative materials that have been investigated as replacements and provide your assessment of them:

H-6. Pollution prevention housekeeping or work practice activities

Describe any housekeeping or work practice activities that you have investigated as pollution prevention measures:

H-7. Rags and wipes

If rags or wipes are used in conjunction with this cleaning operation, describe the handling, storage, and disposal of used rages and wipes: _____

H-8. Enclosure: ☐ Open, unhooded ☐ Open, hooded ☐ Enclosed and vented

H-9. Vented: ☐ To building interior ☐ To atmosphere ☐ To control device, number CD _____

CBI on this sheet: ☐ All ☐ Some (circle) ☐ None

Alternative Questionnaire for Reinforced Plastic Composites

Facility Tracking Number:

FORM I. Waste and Wastewater

Page 1 of 1
(Copy ___ of ___)

I-1. Waste generation

Waste Type	Annual Quantity of Waste Generated	Waste Generated Units	Is this Waste Treated On-site?	Are Air Emissions Controlled?	Sources of Waste (list all coating scenarios that apply, ref. D-1)
<input type="checkbox"/> wastewater			<input type="checkbox"/> yes <input type="checkbox"/> no <input type="checkbox"/> varies	<input type="checkbox"/> yes; CD _____ <input type="checkbox"/> no <input type="checkbox"/> varies	
<input type="checkbox"/> sludge waste			<input type="checkbox"/> yes <input type="checkbox"/> no <input type="checkbox"/> varies	<input type="checkbox"/> yes; CD _____ <input type="checkbox"/> no <input type="checkbox"/> varies	
<input type="checkbox"/> waste solvents			<input type="checkbox"/> yes <input type="checkbox"/> no <input type="checkbox"/> varies	<input type="checkbox"/> yes; CD _____ <input type="checkbox"/> no <input type="checkbox"/> varies	
<input type="checkbox"/> waste coatings			<input type="checkbox"/> yes <input type="checkbox"/> no <input type="checkbox"/> varies	<input type="checkbox"/> yes; CD _____ <input type="checkbox"/> no <input type="checkbox"/> varies	
<input type="checkbox"/> other: _____			<input type="checkbox"/> yes <input type="checkbox"/> no <input type="checkbox"/> varies	<input type="checkbox"/> yes; CD _____ <input type="checkbox"/> no <input type="checkbox"/> varies	

I-2. Mode of wastewater transportation:

☐ Open trench

☐ Open pipe

☐ Closed pipe

☐ Holding tank; termination point: _____

☐ Other: _____

Facility Tracking Number:

FORM J. Comment Sheet

Page 1 of 1
(Copy ____ of ____)

J-1. These extra comments are for

Form: _____ Page: _____

Item number (example, **A-1**): _____ Copy (if you have multiple copies of a page): _____

J-2. Comments

CBI on this sheet: ☐ All ☐ Some (circle) ☐ None

Alternative Questionnaire for Reinforced Plastic Composites